GLENDA LAB REMARK CODES

(Lab_rmrk.xls)

Code	Name	Group	Description	Reporting Instruction Description	Assignor
ALT	Alternate Method	Procedure	Reported value was obtained using an alternate analytic method. Validity of reported value may be compromised	Information about the alternate analytic method used should be provided in the Exception to Method Text	Lab, QC
B5D	Below 5 Times MDL	Other	Reported value is greater than the method detection limit but less than 5 times the method detection limit. Validity of reported value and associated precision statistics (e.g., RPD) may be compromised		Lab, QC
BAC	Correction Factor, background	Corrected	Reported value was corrected for variable background contribution to the instrument signal in the determination of trace elements	The value of the correction factor, if known, should be provided in the Correction Factor table	Lab, QC
BDL	Detection Limit, less than	Limit	Analyte produced an instrument response but reported value is below a detection limit. The type of detection limit was unspecified. Validity of reported value may be compromised		Lab, QC
BLQ	Between Instrument Detection and Quantification	Limit	Reported value is above calculated instrument detection limit but below quantification limit. Validity of reported value may be compromised	Information about limits should be provided in the Project QA/QC Summary	Lab, QC
CAJ	Correction Factor, lab	Corrected	Reported value was corrected by a lab performance check factor	The value of the correction factor, if known, should be provided in the Correction Factor table	Lab, QC
CAN	No Result Reported, analysis canceled	No Result Reported	Analysis was canceled and not performed. No result value was reported	The reason for cancellation should be provided in the Exception to Method Text	Lab, QC
CBC	No Result Reported, cannot be calculated	No Result Reported	Result should have been a calculated value but it could not be determined because an operand value was qualified. No result value was reported		Lab, QC
CBL	Correction Factor, blank	Corrected	Reported value was corrected by a blank correction factor	The value of the correction factor, if known, should be provided in the Correction Factor table	Lab, QC
CCA	Correction Factor, calibration	Corrected	Reported value was corrected by a calibration correction factor	The value of the correction factor, if known, should be provided in the Correction Factor table	Lab, QC
CDI	Correction Factor, dilution	Corrected	Reported value was corrected by a dilution correction factor	The value of the correction factor, if known, should be provided in the Correction Factor table	Lab, QC

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CLC	Correction Factor, other	Corrected	Reported value was corrected. Correction factor was derived by unspecified means or means other than those presented in this list	The value of the correction factor, if known, should be provided in the Correction Factor table. Information about how the correction factor was derived should be provided in the Result Description	Lab, QC
CON	Value Confirmed	Other	Reported value was confirmed by using an auxiliary analytical technique	Information about confirmation technique should be provided in the Analytic Method or the Exception to Method Text	Lab, QC
CSP	Correction Factor, standard pressure	Corrected	Reported value was corrected by a standard pressure correction factor	The value of the correction factor, if known, should be provided in the Correction Factor table	Lab, QC
CST	Correction Factor, standard temperature	Corrected	Reported value was corrected by a standard temperature correction factor	The value of the correction factor, if known, should be provided in the Correction Factor table	Lab, QC
CSU	Correction Factor, surrogate	Corrected	Reported value was corrected by a surrogate correction factor	The value of the correction factor, if known, should be provided in the Correction Factor table	Lab, QC
CTP	Correction Factor, standard temperature and pressure	Corrected	Reported value was corrected by a standard temperature and pressure correction factor	The value of the correction factor, if known, should be provided in the Correction Factor table	Lab, QC
DDL	Daily Detection Limit, less than	Limit	Analyte produced an instrument response but reported value is below the calculated daily detection limit. Validity of reported value may be compromised	Information about detection limits should be provided in the Project QA/QC Summary	Lab, QC
EER	No Result Reported, entry error	No Result Reported	Original value is known to be incorrect due to a data entry error. The correct value could not be determined. No result value was reported		Lab, QC
EHT	Exceeded Holding Time	Handling	Sample or extract was held longer than the approved amount of time before analysis. Validity of reported value may be compromised	The length of time that the sample was held should be provided in the Exception to Method Text	Lab, QC
EST	Estimated Value, outside limit of precision	Estimated Value	Reported value was not within expected limits of precision and is therefore considered an estimate		Lab, QC
FAC	No Result Reported, field accident	No Result Reported	Analysis was halted because a field accident either destroyed the sample or rendered it not suitable for analysis. No result value was reported	Information about the field accident should be provided in the Exception to Method Text	Lab, QC

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Code	Name	Group	Description	Reporting Instruction Description	Assignor
FBB	Field Bottle Blank, failed	QC Failed	A field bottle blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FBS	Blank Sample, failed	QC Failed	A blank sample associated with this analysis failed the acceptance criteria. It is unknown whether the blank that failed was a field blank or a lab blank. Validity of reported value may be compromised		Lab, QC
FCB	Lab Calibration Blank, failed	QC Failed	A lab calibration blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FCC	Continuing Calibration Check, failed	QC Setup	A continuing calibration check associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FCL	Lab Control Solution, failed	QC Failed	A lab control solution associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FCN	Calibration Sample, failed	QC Failed	A calibration sample (type unknown or unspecified) associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FCS	Field Control Solution, failed	QC Failed	A field control solution associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FCV	Coefficient of Variation Limit, failed	Other	Precision, measured as CV between multiple analyses of a sample within and between instrumental analysis runs, did not meet the method criteria. Validity of reported value may be compromised		Lab, QC
FDB	Dry Blank, failed	QC Failed	A dry blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FDC	Drift Check, failed	QC Setup	A drift check associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FDL	Lab Duplicate, failed	QC Failed	A lab duplicate associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC

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Code	Name	Group	Description	Reporting Instruction Description	Assignor
FFB	Field Matrix Blank, failed	QC Failed	A field matrix blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FFD	Field Duplicate, failed	QC Failed	A field duplicate associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FFR	Field Blank, failed	QC Failed	A field blank sample (type unknown or unspecified) associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FFS	Field Spike, failed	QC Failed	A field spike associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FFT	Trip Blank, failed	QC Failed	A trip blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FIB	Field Instrument Blank, failed	QC Failed	A field instrument blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FIC	Lab Interference Check Sample, failed	QC Failed	A lab interference check sample associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised.		Lab, QC
FIS	Internal Standard, failed	QC Failed	An internal standard associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FKB	Continuing Check Blank, failed	QC Failed	A continuing check blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FLA	Field Lab Anomaly	Other	Reported value for lab measurement was inconsistent with reported value for corresponding field measurement. Validity of reported value may be compromised		Lab, QC
FLB	Lab Matrix Blank, failed	QC Failed	A lab matrix blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC

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Code	Name	Group	Description	Reporting Instruction Description	Assignor
FLC	Linearity Check, failed	QC Setup	A linearity check associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FLR	Lab Blank, failed	QC Failed	A lab blank sample (type unknown or unspecified) associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FLS	Lab Spike, failed	QC Failed	A lab spike associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FMB	Matrix Spike Blank, failed	QC Failed	A matrix spike blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FMS	Matrix Spike, failed	QC Failed	A matrix spike associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FNB	Lab Instrument Blank, failed	QC Failed	A lab instrument blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FOB	Field Fortified Blank, failed	QC Failed	A field fortified blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FPB	Lab Procedural Blank, failed	QC Failed	A lab procedural blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FPC	Performance Check, failed	QC Failed	A lab performance check sample associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FPS	Lab Procedural Spike, failed	QC Failed	A lab procedural spike associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FQC	Quality Control, failed	QC Failed	Quality control criteria were exceeded during analysis. Value was not rejected, however. Validity of reported value may be compromised		Lab, QC

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Code	Name	Group	Description	Reporting Instruction Description	Assignor
FRB	Field Reagent Blank, failed	QC Failed	A field reagent blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FRF	Reference material, failed	QC Failed	A reference sample (type unknown or unspecified) associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FRM	Field Reference Material, failed	QC Failed	A field reference material associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FRN	Lab Reagent Blank, failed	QC Failed	A lab reagent blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FRS	Lab Reference, failed	QC Failed	A lab reference associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FSB	Lab Solvent Blank, failed	QC Failed	A lab solvent blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FSD	Lab Spike Duplicate, failed	QC Failed	A spiked lab duplicate associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FSF	Surrogate Spike, failed	QC Failed	Surrogate spike recoveries associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FSK	Spike sample, failed	QC Failed	A spike sample (type unknown or unspecified) associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FSL	Lab Spike Blank, failed	QC Failed	A spiked lab blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FSP	Lab Solvent Spike, failed	QC Failed	A lab solvent spike associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC

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Code	Name	Group	Description	Reporting Instruction Description	Assignor
FSR	Standard Reference Material, failed	QC Failed	A standard reference material associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FSS	Surrogate, failed	QC Failed	Surrogate recoveries associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FTB	Field Filter Blank, failed	QC Failed	A field filter blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FUB	Field Tubing Blank, failed	QC Failed	A field tubing blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FVS	Lab Calibration Verification Solution, failed	QC Setup	A lab calibration verification solution associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
FWB	Field Source Water Blank, failed	QC Failed	A field source water blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC
GTL	Operating Range, greater than	Limit	Reported value is above the valid operating range of the analytical system, quantitative process, or qualitative process, or reported value is above the highest calibration standard. Validity of reported value may be		Lab, QC
HIB	Likely Biased High	Other	Reported value is probably biased high as evidenced by LMS (matrix spike, lab) results, SRM (reference material, standard) recovery, blank contamination or other internal lab QC data. Reported value is not		QC
IDL	Instrument Detection Limit, less than	Limit	Analyte produced an instrument response but reported value is below the calculated instrument detection limit. Validity of reported value may be compromised	Information about detection limits should be provided in the Project QA/QC Summary	Lab, QC
IDS	Analyte Not Confirmed	Other	Identity of analyte could not be confirmed using an alternate technique		Lab, QC
INT	Interference Suspected	Other	Reported value is believed to be the result of interference and not presence of the analyte. Validity of reported value may be compromised		Lab, QC

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Code	Name	Group	Description	Reporting Instruction Description	Assignor
INV	Invalid	Other	Reported value is deemed invalid by the QC Coordinator		QC
ISC	Correction Factor, internal standard	Corrected	Reported value was corrected for the internal standard recovery	The value of the correction factor, if known, should be provided in the Correction Factor table	Lab, QC
ISP	Improper Sample Preservation	Handling	Sample was not properly preserved. Validity of reported value may be compromised		Lab, QC
JCN	Sample Container Damaged, no sample lost	Handling	Sample container (jar, test tube, etc.) was damaged but no portion of the sample was lost. Validity of reported value may be compromised		Lab, QC
JCW	Sample Container Damaged, sample lost	Handling	Sample container (jar, test tube, etc.) was damaged. At least a portion of the sample was lost. Validity of reported value may be compromised		Lab, QC
KCA	Known Contamination, lab analysis	Contamination	Contamination is known to have occurred during the laboratory analysis process. Validity of reported value may be compromised	The source of contamination, if known, should be provided in the Exception to Method Text	Lab, QC
KCF	Known Contamination, field	Contamination	Contamination is known to have occurred during the field collection process. Validity of reported value may be compromised	The source of contamination, if known, should be provided in the Exception to Method Text	Lab, QC
KCP	Known Contamination, lab preparation	Contamination	Contamination is known to have occurred during the laboratory preparation process. Validity of reported value may be compromised	The source of contamination, if known, should be provided in the Exception to Method Text	Lab, QC
KCX	Known Contamination, unknown	Contamination	Contamination is known to have occurred but the source of that contamination is unknown. Validity of reported value may be compromised		Lab, QC
LAC	No Result Reported, lab accident	No Result Reported	Analysis was halted because a laboratory accident either destroyed the sample or rendered it not suitable for analysis. No result value was reported	Information about the lab accident should be provided in the Exception to Method Text	Lab, QC
LOB	Likely Biased Low	Other	Reported value is probably biased low as evidenced by LMS (matrix spike, lab) results, SRM (reference material, standard) recovery or other internal lab QC data. Reported value is not considered invalid, however		QC

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Code	Name	Group	Description	Reporting Instruction Description	Assignor
LTL	Operating Range, less than	Limit	Reported value is below the valid operating range of the analytical system, quantitative process, or qualitative process, or reported value is less than the lowest calibration standard. Validity of reported value may be		Lab, QC
MBK	Blank, detected below MDL	Other	Analyte was detected in a related lab blank at a concentration below the method detection limit (MDL) and/or blank action limit, however the related lab blank did not fail		Lab, QC
MDL	Method Detection Limit, less than	Limit	Analyte produced an instrument response but reported value is below the calculated method detection limit. Validity of reported value may be compromised	Information about detection limits should be provided in the Project QA/QC Summary	Lab, QC
NAI	No Result Reported, interference	No Result Reported	A valid result could not be obtained from the analysis due to interference. Analysis was halted. No result value was reported	Information about the type of interference should be provided in the Exception to Method Text	Lab, QC
NRR	No Result Reported, other	No Result Reported	Result value was not determined or entered for reasons other than those presented in this list. No result value was reported	The reason the result was not determined or entered should be provided in the Exception to Method Text	Lab, QC
NSQ	No Result Reported, insufficient quantity of sample	No Result Reported	Result value could not be obtained due to insufficient quantity of the sample. No result value was reported		Lab, QC
NWL	Operating Range, not within	Limit	Reported value is outside (above or below not specified) the valid operating range of the analytical system, quantitative process, or qualitative process, or outside the calibration standard. Validity of reported		Lab, QC
OTHER	Other	Other	Validity of reported value may be compromised for reasons other than those presented in this list	The reason the validity of the reported value may be compromised should be provided in the Result Description	Lab, QC
PNQ	No Quantifiable Result Reported	No Result Reported	Analyte was present in the sample but was not quantifiable. No result value was reported		Lab, QC
PPD	Spiked Blank Duplicate, failed	QC Failed	Analysis results showed unacceptable duplicate precision between laboratory prepared spiked blank duplicates. Validity of reported value may be compromised		Lab, QC
REJ	Value Rejected	Other	Reported value was rejected by the laboratory. Value was not utilized in the calculation of any results	The reason that the value was rejected should be provided in the Exception to Method Text	Lab, QC

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Code	Name	Group	Description	Reporting Instruction Description	Assignor
REQ	Method Not Approved, re-analyze	Procedure	Analytic method for the reported value was not approved. The sample was re-analyzed using a different method		Lab, QC
RET	Value Not Approved	Other	Reported value is not approved by laboratory management. The sample was re-analyzed with no change in the method. Validity of reported value may be compromised	The reason that the value is not approved should be provided in the Exception to Method Text	Lab, QC
REX	Re-Prepared	Procedure	Reported value was generated from a re-preparation of the same sample		Lab, QC
RIN	Re-Analyzed	Procedure	Reported value was generated from a re-analysis of the same sample extract or aliquot using the same method		Lab, QC
RSL	Resloped	Procedure	Reported value was quantified from a resloped calibration curve during the instrument run		Lab, QC
SCA	Suspected Contamination, lab analysis	Contamination	Contamination is suspected to have occurred during the laboratory analysis process. Validity of reported value may be compromised	The source of contamination, if known, should be provided in the Exception to Method Text	Lab, QC
SCF	Suspected Contamination, field	Contamination	Contamination is suspected to have occurred during the field collection process. Validity of reported value may be compromised	The source of contamination, if known, should be provided in the Exception to Method Text	Lab, QC
SCP	Suspected Contamination, lab preparation	Contamination	Contamination is suspected to have occurred during the laboratory preparation process. Validity of reported value may be compromised	The source of contamination, if known, should be provided in the Exception to Method Text	Lab, QC
SCX	Suspected Contamination, unknown	Contamination	Contamination is suspected to have occurred but the source of that contamination is unknown. Validity of reported value may be compromised		Lab, QC
SDL	System Detection Limit, less than	Limit	Analyte produced an instrument response but reported value is below the calculated system detection limit. Validity of reported value may be compromised	Information about detection limits should be provided in the Project QA/QC Summary	Lab, QC
SFF	Field Spike Blank, failed	QC Failed	A field spike blank associated with this analysis failed the acceptance criteria. Validity of reported value may be compromised		Lab, QC

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Code	Name	Group	Description	Reporting Instruction Description	Assignor
TIE	Estimated value, no calibration standard	Estimated Value	Reported value has been estimated because no calibration standard was analyzed		Lab, QC
UDL	Sample-specific Detection Limit, less than	Limit	Analyte produced an instrument response but reported value is below the calculated sample-specific detection limit. Validity of reported value may be compromised	Information about detection limits should be provided in the Project QA/QC Summary	Lab, QC
UNC	Value Not Confirmed	Other	Reported value could not be confirmed by using an auxiliary analytic method (e.g., an alternate GC column). Validity of reported value may be compromised	Information about the confirmation technique should be provided in the Analytical Method or the Exception to Method Text	Lab, QC
UND	Analyte Not Detected	Limit	Analyte produced no instrument response above noise		Lab, QC